Input : pre-processedimage(height,width).

Output: Bounding boxes of detected objects.

#split the image into grid of cells

cells=split\_image\_into\_grid(image)

#For each cell in the grid, predict bounding boxes and confidence scores.

predictions=[]

for each cell in cells:

prediction.append(predict\_bounding\_boxes\_and\_confidence\_scores(cell))

#perform non-max suppression to remove overlapping bounding boxes

boxes,scores=perform\_non\_max\_suppression(predictions)

#Filter bounding boxes on confidence score

filtered\_boxes=[]

filtered\_scores=[]

for i in range(len(boxes)):

if scores[i]>0.5:

filtered\_boxes.append(boxes[i])

filtered\_scores.append(scores[i])

#return filtered boxes and scores

return filtered\_boxes,filtered\_scores